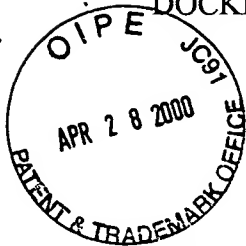


DOCKET NO.: P-3576.07 CIP 1

B PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DRAWING TRANSMITTAL



In re Application of: David L. Thompson
For: World Wide Patient Location And Data Telemetry System For Implantable Medical Devices
Serial No.: 09/198,623
Group Art No.: 3737
Examiner: S. Getzow
Batch No.: H74
Filed: November 24, 1998

CERTIFICATE OF MAILING UNDER 37 CFR 1.8: I hereby certify that this DRAWING TRANSMITTAL and the paper(s) described herein, are being deposited in the U.S. Postal Service, as first class mail, addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on this 25 of April, 2000.

Karen L. Hoffman
Signature

Karen L. Hoffman
Printed Name

Commissioner of Patents and Trademarks
Washington, D.C. 20231
Attn: Chief Draftsman

We are transmitting the following paper(s):

X Drawing Transmittal
X Formal Drawings (9 sheets)
X Return Postcard

04/24/00
Date

Girma Wolde-Michael
Girma Wolde-Michael
Reg. No. 36,724
MEDTRONIC, INC.
7000 Central Avenue NE
Minneapolis, MN 55432
Telephone: (763) 514-6402



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ISSUE FEE AND ADVANCED ORDER TRANSMITTAL

*In re Application of: David L. Thompson
For: World Wide Patient Location And Data Telemetry System For Implantable Medical Devices
Serial No.: 09/198,623
Filed: November 24, 1998

CERTIFICATE OF MAILING UNDER 37 CFR 1.8: I hereby certify that this **Issue Fee and Advanced Order Transmittal** and the paper(s), as described herein, are being deposited in the U.S. Postal Service, as first class mail, addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on this 25th April, 2000

Karen L. Hoffman
Signature

Karen L. Hoffman
Printed Name

Commissioner of Patents and Trademarks
ATTN: BOX ISSUE FEE
Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

- ☒ ISSUE FEE AND ADVANCED ORDER TRANSMITTAL (in duplicate)
- ☒ PTOL FORM 85B
- ☒ Return Postcard

☒ Charge Deposit Account No. 13-2546 the sum of \$1,210.00 (Issue Fee) and \$30.00 (Advanced Order). **TOTAL: \$1,240.00**

☒ Please charge any additional fees or credits to Deposit Account No. 13-2546 which may have been overlooked on this Issue Fee and Advanced Order transmittal with regard to this filing. A duplicate of this transmittal is enclosed.

04/24/00
Date

Girma Wolde-Michael
Girma Wolde-Michael
REG. NO. 36,724
MEDTRONIC, INC.
7000 Central Avenue N.E.
Minneapolis, Minnesota 55432
Telephone: (763) 514-6402

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

To:
MEDTRONIC, Inc.
MS301
Attn. ATLESS, Michael B.
7000 Central Avenue N.E.
MINNEAPOLIS, MINNESOTA 55432
UNITED STATES OF AMERICA

Date of mailing
(day/month/year) 20/11/1996

Applicant's or agent's file reference
P-3576 PCT

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US 96/ 10325

International filing date
(day/month/year) 13/06/1996

Applicant
MEDTRONIC, INC.

20-11-1996 Search Report MB

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicants's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.


4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

 European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

IVERSTAM M P

27 1996

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P-3576 PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US 96/ 10325	International filing date(day/month/year) 13/06/1996	(Earliest) Priority Date (day/month/year) 23/06/1995
Applicant MEDTRONIC, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing

☐ filed with the international application.
☐ furnished by the applicant separately from the international application,
☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.
☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 Figure No. 1 ☒ as suggested by the applicant. ☐ None of the figures.
☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A system for communicating with a medical device (10) implanted in an ambulatory patient and for locating the patient in order to selectively monitor device function, alter device operating parameters and modes and provide emergency assistance to and communications with a patient (10). The implanted device (10) includes a telemetry transceiver for communicating data and operating instructions between the implanted device and an external patient communications control device (20) that is either worn by or located in proximity of the patient within the implanted device transceiving range. The control device preferably includes a communication link with a remote medical support network (50), a global positioning satellite (80) receiver for receiving positioning data identifying the global position of the control device, and a patient activated link for permitting patient initiated personal communication with the medical support network (50). A system controller (24) in the control device (20) controls data and voice communications for selectively transmitting patient initiated personal communications and global positioning data to the medical support network (50), and for receiving and initiating re-programming of the implanted device operating modes and parameters in response to instructions received from the medical support network (50). The communications link between the medical support network and the patient communications control device may comprise a world wide satellite network, hard-wired telephone network, a cellular telephone network (82) or other personal communications system.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 96/10325

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61N1/372

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US,A,5 321 618 (GESSMAN) 14 June 1994 ✓	1-4,10, 11,13-23
A	see the whole document ---	5,7
X	FR,A,2 126 301 (ESB) 6 October 1972 ✓	1-4,10, 11,13-23
A	see the whole document ---	5,7
X	US,A,3 885 552 (KENNEDY) 27 May 1975 ✓	1-4,10, 11,13-23
A	see the whole document ---	5,7
X	US,A,3 768 014 (SMITH & AL.) 23 October 1973 ✓	1-4,10, 11,13-23
A	see the whole document ---	5,7
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

29 October 1996

Date of mailing of the international search report

20. 11. 96

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Lemercier, D

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 96/10325

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE,A,44 01 443 (SIEMENS) 4 August 1994 ✓	1-4,10, 11,13-23
A	see the whole document ---	5,7
X	FR,A,2 624 749 (DANA) 23 June 1989 ✓ see the whole document -----	1,5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/10325

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-5321618	14-06-94	NONE	
FR-A-2126301	06-10-72	CA-A- 945277	09-04-74
		DE-A- 2205336	02-08-73
		GB-A- 1384573	19-02-75
		SE-B- 377048	23-06-75
		US-A- 3769965	06-11-73
US-A-3885552	27-05-75	NONE	
US-A-3768014	23-10-73	CA-A- 991274	15-06-76
DE-A-4401443	04-08-94	US-A- 5433736	18-07-95
FR-A-2624749	23-06-89	NONE	